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Nematological Abstracts

1992 Volume 61 Annual Indexes

Continues *Helminthological Abstracts – Series B: Plant Nematology*

Includes List of Source Journals

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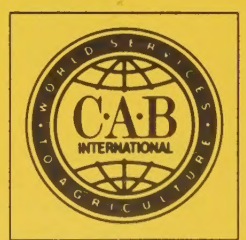

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Nematological Abstracts

A quarterly journal compiled from the CAB ABSTRACTS database.
Produced by the DIVISION OF CROP PROTECTION AND GENETICS
in association with the International Institute of Parasitology

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1992

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The Department of Crop Protection also prepares: *Review of Agricultural Entomology, Review of Plant Pathology, Weed Abstracts* and *Seed Pathology and Microbiology.*

How to use Nematological Abstracts

● Either BROWSE, using the CONTENTS

Within each issue, records are sequenced according to their principal subject matter – see CONTENTS page.

About half of the records are arranged by CROP or other host plant, so browsing is particularly useful to crop specialists.

Coverage includes plant-parasitic nematodes (not limited to those on economically important plants), free-living nematodes in soil or water, and nematodes associated with invertebrates as final hosts.

● Or SEARCH, using the INDEXES

Subject indexes and author indexes are compiled quarterly and cumulated annually.

SUBJECT INDEX

This guides the user to all the records that make significant reference to specific topics, including the following:

NEMATODES, OTHER INVERTEBRATES AND MICROORGANISMS

Scientific names are used. Records that refer to ecological groups of nematodes in a general way are indexed under these group names: Plant parasitic nematodes, Entomophilic nematodes, Free living nematodes, Marine nematodes. The following headings are used to group the names of individual organisms: Arthropods, Bacteria, Fungi, Insects, Nematophagous fungi, Plant viruses.

HOST PLANTS

English common names are used for major crops, scientific names for minor crops and other plants. Records that refer mainly to groups are indexed under group names, e.g. cereals, vegetables.

COUNTRY OR REGION

For records where geographical occurrence is of particular relevance.

AGROCHEMICALS etc.

Including common or chemical names, with cross-references from proprietary names. See also Nematicides for general records.

OTHER HEADINGS

The main ones are listed here. Scan the ANNUAL INDEX for a more complete picture.

Adaptation	Development	Life cycle	Reports
Behaviour	Ecology	Losses	Residues
Bibliographies	Evolution	Molecular genetics	Resistance
Biochemistry	Feeding behaviour	Morphology	Reviews
Biological control	Fresh water	New geographic records	Soil
Biological control agents	Genetics	New host records	Spread
Biology	Geographical distribution	Organic amendments	Surveys
Books	Hatching factors	Pathotypes	Taxonomy
Chemical control	Host parasite relationships	Physiology	Techniques
Conferences	Host range	Plant extracts	Theses
Cultural control	Interactions	Population dynamics	Transmission
Damage	Keys	Quarantine	Ultrastructure

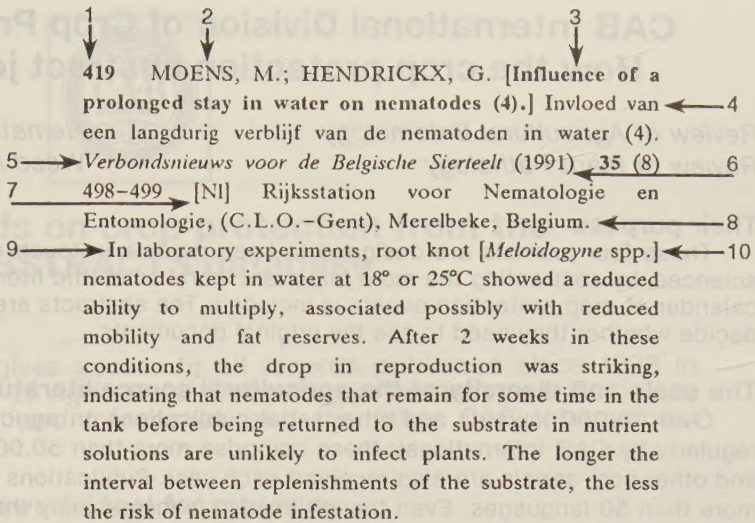
AUTHOR INDEX

All authors of each paper are indexed alphabetically by surname. Variants of surnames are also indexed.

A TYPICAL RECORD

1) Abstract No.
2) Authors
3) English translation of title
4) Title
5) Journal or other document
6) (Year) Volume (Part) pages
7) Language of text, any other language of summary
8) Address of first author
9) Abstract
10) Preferred name, if the author uses another name.

The title should be read as an integral part of the abstract.


1
2
3
419 MOENS, M.; HENDRICKX, G. [Influence of a prolonged stay in water on nematodes (4).] Invloed van een langdurig verblijf van de nematoden in water (4).
4
5
Verbondsnieuws voor de Belgische Sierteelt (1991) 35 (8) 498-499
6
7
[Nl] Rijksstation voor Nematologie en Entomologie, (C.L.O.-Gent), Merelbeke, Belgium.
8
9
In laboratory experiments, root knot [Meloidogyne spp.] nematodes kept in water at 18° or 25°C showed a reduced ability to multiply, associated possibly with reduced mobility and fat reserves. After 2 weeks in these conditions, the drop in reproduction was striking, indicating that nematodes that remain for some time in the tank before being returned to the substrate in nutrient solutions are unlikely to infect plants. The longer the interval between replenishments of the substrate, the less the risk of nematode infestation.
10

TO OBTAIN A COPY OF THE ORIGINAL ITEM

Use the CAB International Document Delivery Service. A form is printed in this issue.

LIST OF JOURNALS CITED

The annual indexes include an alphabetical list of all journals cited during the year.

ABBREVIATIONS

A number of easily understood abbreviations are used (e.g. sp., species). Initial letters may be used for a nematode after its full name has appeared. The following are also used:

a.i.	active ingredient	EM	electron microscope	PAGE	polyacrylamide gel electrophoresis
coeff.	coefficient	FW	fresh weight	RH	relative humidity
conc.	concentrated	ID	infective dose	SEM	scanning electron microscope
concn	concentration(s)	IU	International unit	str.	strain
CV	coefficient of variation	J_2	second-stage juvenile(s)	TEM	transmission electron microscope
DM	dry matter				
DW	dry weight	LC	lethal concentration		
ED	effective dose	LD	lethal dose		
ELISA	enzyme-linked immunosorbent assay	LT	lethal time		

In abbreviations for languages an initial capital denotes the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	En	English	Ja	Japanese	Pt	Portuguese
Al	Albanian	Eo	Esperanto	Ko	Korean	Ro	Romanian
Ar	Arabic	Es	Spanish	La	Latin	Ru	Russian
Az	Azerbaijani	Fi	Finnish	Li	Lithuanian	Sh	Serbo-Croat (either script)
Be	Byelorussian (White Russian)	Fr	French	Lv	Latvian	Sk	Slovak
		Gr	Greek	Ma	Macedonian	Sn	Slovene
Bg	Bulgarian	He	Hebrew	My	Malay and Bahasa Malaysia	Sv	Swedish
Ch	Chinese	Hu	Hungarian			Ta	Tajik
Cs	Czech	Ia	Interlingua	Nl	Dutch, Flemish	Tr	Turkish
Da	Danish	In	Indonesian	No	Norwegian	Uk	Ukrainian
De	German	Is	Icelandic	Pe	Persian		
Ee	Estonian	It	Italian	Pl	Polish		

CAB International Division of Crop Protection and Genetics
How the crop protection abstract journals are compiled

Review of Agricultural Entomology
Review of Plant Pathology
Nematological Abstracts
Weed Abstracts

Their purpose

These four journals are designed to keep readers in touch with developments in the crop protection sciences, by abstracting the more important world scientific literature and by publishing review articles. A calendar of crop protection events is included. The abstracts are intended to be full enough for readers to decide whether they need to see the original documents.

The scale and diversity of the agricultural source literature

Over 10,000 journals and other serial publications on agriculture and allied disciplines are received regularly by CAB International; these comprise more than 50,000 documents annually. Over 3000 books and other non-serials are also received each year. Publications are received from some 150 countries, in more than 50 languages. Even though English is increasingly the international language of science, some 40% of the literature is in other languages.

Scanning and abstracting the source literature of crop protection

All these documents are scanned by CABI subject specialists and are available to the CABI Division of Crop Protection and Genetics. About 3000 journals, and numerous new books, are scanned regularly in the Division whose staff includes specialists in entomology, plant pathology, nematology, weed science, plant genetics and also linguists.

These specialists identify items within the scope of the four crop protection journals – broadly, scientific documents about agriculturally significant pests (invertebrates, plant pathogens and weeds), beneficial organisms, and relevant crop protection practices and products.

For each item, a record is created consisting of:
- bibliographic information
- an abstract, in English
- subject coding
- index terms.

The CAB ABSTRACTS database

These records are added to the CAB ABSTRACTS bibliographic database. This machine-readable database contains all records published since 1973 in about 50 CABI abstract journals. The total of over 2 million records is growing by more than 150,000 new records per year, of which more than 20,000 per year are on crop protection. The database is available to users for retrospective retrieval and for maintaining current awareness of literature on defined topics. See separate page, and inside back cover.

The crop protection abstract journals

At intervals, relevant records newly added to the database are selected and become the basis for a new issue of one of the crop protection journals. Records are sorted into a standard sequence within each journal issue, according to subject matter. An author index and a subject index are generated. Cumulative indexes are generated at the end of each year.

Scientific links

Each of the four crop protection journals has its own international Editorial Advisory Board of subject specialists. Their members advise on the content and development of the journals, and commission review articles of topical interest.

The CABI Division of Crop Protection and Genetics maintains close contact with the International Institute of Entomology (IIE), the International Mycological Institute (IMI), the International Institute of Parasitology (IIP) and the International Institute of Biological Control (IIBC). These links are especially important in providing the authority for the preferred names of pest organisms used in the journal indexes. IIBC is responsible for compiling the related abstract journal *Biocontrol News and Information*.

The Division of Crop Protection and Genetics is also in close contact with subject specialists in the four other Divisions of the CABI Information Services who compile 45 abstract journals covering the rest of agriculture, forestry and allied disciplines. Comments from users are always welcome. Please write to Mr Geoffrey A. Viney, Division of Crop Protection and Genetics, CAB International, Wallingford, Oxon OX10 8DE, UK.

Retrieving records on crop protection from the CAB ABSTRACTS database

The CAB ABSTRACTS database gives access to all records published since 1973 in *Review of Plant Pathology, Review of Agricultural Entomology, Nematological Abstracts, Weed Abstracts, Biocontrol News and Information* and the other CAB International abstract journals.

The database provides a powerful tool for retrieving:

- records from any one of the CONTENTS headings or their subdivisions (more than 200 subdivisions are explained in *CAB ABSTRACTS Online Manual*).
- records containing, for example:
  - an author's name
  - a plant name
  - a pest name (invertebrate, plant pathogen or weed)
  - a country name
  - a vector name
  - the name of a beneficial organism
  - an agrochemical name
  - a journal name
  - any chosen word or phrase (including any index phrase)
  - any combination of these.

Retrieval can be:

- ONLINE, using a personal computer or terminal, linked to the telephone system. Output can be printed and mailed to you or, subject to certain conditions, downloaded for local processing.
- From CD-ROM. CAB ABSTRACTS data for 1984–1991 are available on CD-ROM.
- By CAB International, who can hold a profile of your interests and send you relevant records on paper or on floppy disks. This can be done once or as a regular monthly service.

Further information is available from any of the CAB International offices.

Full particulars of online hosts are given in the CAB International Information Services Catalogue, available free on request.

Three database guides of particular interest to users of the CAB ABSTRACTS database are:

- *CAB ABSTRACTS Online Manual*, 1989 Edition. A detailed guide to online retrieval.
- *CAB Thesaurus*, 1990 Edition. A hierarchical list of terms used in indexing all the 50 CAB International abstract journals and the AGRICOLA database of the National Agricultural Library of the USA.
- *CAB International Serials Checklist*, 1988. A list of all titles regularly scanned by CAB International.

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Tropical Plant Nematology Advisory and Research: J. Bridge, MSc, PhD, CBiol
Tropical Parasitic Diseases: S. Townson, MSc, PhD

The International Institute of Parasitology (IIP), founded in 1929, has a staff of about 35 and provides taxonomic identification, research, consultancy and contract services to world agriculture and medicine. The Institute is an International centre for the systematics of parasitic helminths of animals and man, and plant parasitic and entomophilic nematodes. Publications include research papers, books, monographs and keys (details on request).

Institute staff are active in project work in many parts of the world, acting as consultants or researchers for a variety of international and national agencies. IIP staff contribute as advisers to field and survey work, and provide an authoritative identification service for the nematodes and helminths collected.

Identification Services

IIP provides an authoritative identification service to agricultural, biological and medical scientists throughout the world. The service handles plant parasitic and entomophilic nematodes and helminth parasites of animals and man. The services are backed by well documented and extensive reference collections including those of several eminent helminthologists; living cultures of plant parasitic nematodes are maintained in the IIP glasshouses.
IIP's team of specialists is also involved in research including taxonomic revision of economically important groups of helminths and plant parasitic nematodes and the production of identification aids.
Details of charging and advice on collection, preservation and despatch of specimens for identification are available on request. The identification service is provided free of charge to non commercial users in CABI member countries and at moderate costs to users in non-member countries and in commercial organizations.

Tropical Plant Nematology Advisory and Research Unit

The unit provides an advisory service to countries in the sub-tropics and tropics, as an adjunct to the identification services provided at the Institute. It gives practical information and advice on the economic importance and control methods that can be employed on nematodes identified. Staff are available for consultancies on nematode problems and can undertake surveys of individual crops or regions, plan workshops or give in-country advice on existing nematode projects and problems. Staff are engaged in funded research on tropical nematodes in glasshouses and laboratories at the institute, which also provides facilities for visiting research workers. The Unit is part of a "Research Group for Nematodes in Tropical and Subtropical Agriculture" formed between the Institute and the AFRC Institute of Arable Crops Research, Rothamsted, UK.

Tropical Parasitic Diseases Unit

The Unit carries out research projects directed towards the prevention and treatment of human tropical parasitic diseases. Research at IIP has focussed on onchocerciasis and lymphatic filariasis and their arthropod vectors, and is funded by major international agencies such as WHO and the Edna McConnell Clark Foundation. These projects are part of a world-wide multidisciplinary research effort to find and develop new drugs and vaccines, and involve collaboration between pharmaceutical companies, university and institute-based research groups and clinical groups working in field trials.

Training

IIP offers both formal and informal training courses and facilities for visiting workers. Training is particularly orientated towards scientists and extension workers in developing countries. Courses of six weeks duration, on the identification of helminth parasites or plant parasitic nematodes of economic importance, are offered in alternate years to groups of fifteen participants.
Supervised individual study for periods of up to 12 months is offered by IIP's specialists and facilities are available for postgraduate studies for higher degrees or as part of a higher degree course. IIP is an associated Institute of the University of Reading and has collaborative projects with the University of London. Visiting workers in relevant fields of research are welcome to use the facilities and expertise available at IIP.

Library

The IIP library offers a specialist collection of over 6600 books, 231 serial titles and over 28,000 reprints on helminthology, protozoology and plant nematology available to outside users. Computer terminals permit on-line retrieval from the world's major databases, including CAB ABSTRACTS, and offers a photocopying service as part of CABI Document Delivery Service. IIP collaborates with the Information Services of CABI in the production of books and journals in its fields.

Further details

Please write or telephone for our current brochure or further information on specific services you require.

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LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1992 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.
Many other serials were scanned during 1992 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition.* The publication includes ISSNs and publishers' addresses.

ACS Symposium Series
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Universitatis Henanensis
Acta Agriculturae Universitatis Jiangxiensis
Acta Botanica Indica
Acta Horticulturae
Acta Hydrochimica et Hydrobiologica
Acta Oecologia
Acta Universitatis Agriculturae, Facultas Agronomica
Acta University, Septentrionali Occident Agriculture
Advances in Agronomy
Advances in Biosciences (Muzaffarnagar)
Advances in Disease Vector Research
Advances in Horticultural Science
Afro-Asian Journal of Nematology
Agri Hortique Genetica
Agricultural Research Review
Agricultural Science Digest (Karnal)
Agricultural Sciences
Agricultural Zoology Reviews
Agriculture in Northern Ireland
Agriculture, Ecosystems & Environment
Agronomía Costarricense
Agronomie
Agronomy Journal
Alexandria Journal of Agricultural Research
American Naturalist
American Potato Journal
Analele Institutului de Cercetări pentru Protectia Plantelor
Andrologia
Angewandte Parasitologie
Anhui Forest Science and Technology
Animal Behaviour
Animalia
Annales Agriculturae Fenniae
Annales de l'Institut Phytopathologique Benaki
Annals of Applied Biology
Annals of the Entomological Society of America
Annual Report of the Society of Plant Protection of North Japan
Annual Review of Genetics
Annual Review of Phytopathology
Antimicrobial Agents and Chemotherapy
Antonie van Leeuwenhoek
Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
Applied and Environmental Microbiology
Applied Entomology and Phytopathology
Applied Entomology and Zoology
Arab Journal of Plant Protection
Archive für Phytopathologie und Pflanzenschutz
Archives of Environmental Health
Archives of Microbiology
Arkansas Farm Research
ASCOLFI Informa
Asian Marine Biology
Aspects of Applied Biology
Assiut Journal of Agricultural Sciences
Australasian Plant Pathology
Australian & New Zealand Wine Industry Journal
Australian Forestry
Australian Journal of Agricultural Research
Australian Journal of Experimental Agriculture
Berita-Pusat Penelitian Perkebunan Gula Indonesia
Biochemical Systematics and Ecology
Biochemie und Physiologie der Pflanzen
Biochemistry Journal
Biochimica et Biophysica Acta
Biocontrol Science and Technology
BioEssays
Biología (Bratislava)
Biological Control
Biological Journal of the Linnean Society
Biology and Fertility of Soils
Biomedical and Environmental Sciences
Bioresource Technology
BIOTROP Special Publication
Biuletyn Warzywniczy
Bodenkultur
Boletim Técnico Copersucar
Boletín de Sanidad Vegetal, Plagas
Boletin Informativo - Manejo Integrado de Plagas
Boletín INTA - Centro Regional Cuyo
Botanical Review
BPP, Buletinul de Protectia Plantelor
British Journal of Industrial Medicine
British Reports, Translations and Theses
Buletín de Sanidad Vegetal, Plagas
Bulletin - Louisiana Agricultural Experiment Station
Bulletin Agronomique (Petit Bourg)
Bulletin Agronomique des Antilles et de la Guyane
Bulletin d'Information - CORESTA
Bulletin OEPP
Bulletin of Entomological Research
Bulletin of Entomology (New Delhi)
Bulletin of Faculty of Agriculture, University of Cairo
Bulletin of Marine Science
Bulletin of the British Museum (Natural History), Zoology Series
Bulletin of the Faculty of Agriculture, Saga University
Bulletin of the Forestry and Forest Products Research Institute, Ibaraki
Bulletin SROP
Byulleten' Vsesoyuznogo Instituta Gel'mintologii im. K. I. Skryabina
Canadian Entomologist
Canadian Journal of Plant Pathology
Canadian Journal of Plant Science
Canadian Journal of Zoology
Canadian Plant Disease Survey
Cell (Cambridge)
Česká Mykologie
Changing Villages
China Citrus
Chinese Agricultural Science Bulletin
Chinese Journal of Biological Control
Chinese Journal of Zoology
Chinese Science
Ciência Biológica, Molecular and Cellular Biology
Ciencia y Técnica en la Agricultura, Tabaco
Ciencias de la Agricultura
Circular - Fundação Instituto Agronômico do Paraná
Citrograph
Citrus and Vegetable Magazine
Colture Protette
Combined Proceedings - International Plant Propagators' Society
Comparative Physiology and Ecology
Comptes Rendus de l'Académie d'Agriculture de France
Computers and Electronics in Agriculture
Comunicado Técnico - Centro Nacional de Pesquisa de Milho e Sorgo
CRC Critical Reviews in Microbiology
Crop Genetic Resources
Crop Protection
Crop Science
Cultivar (Paris)
Current Biology
Current Nematology
Current Opinion in Genetics & Development
Current Research - University of Agricultural Sciences (Bangalore)
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Documentos - Centro Nacional de Pesquisa de Defesa da Agricultura, EMBRAPA
Eesti Teaduste Akadeemia Toimetised, Biologiya
Egyptian Journal of Phytopathology
EMBO Journal
Entomologia Experimentalis et Applicata
Entomological Knowledge

Entomology Memoir - Republic of South Africa, Department of Agricultural Development
Entomophaga
Environmental Entomology
Estuarine, Coastal & Shelf Science
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Everyman's Science
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Extension Bulletin - Cooperative Extension, College of Agriculture & Home Economics, Washington State University
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Fitopatología
Fitopatología Venezolana
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